

1671J Coax - 50 Ohm Microwave Cable

For more Information
please call

1-800-Belden1

**Description:**

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	24	Solid	SPCCS - Silver Plated Copper Covered Steel	.020

Total Number of Conductors: 1

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.062

Outer Shield**Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Copper Foil	100
2	Braid	Tin-Filled Composite	100

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.127 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C (UL AWM Style 10245)
Non-UL Temperature Rating:	105°C
Bulk Cable Weight:	16 lbs/1000 ft.
Max. Recommended Pulling Tension:	26 lbs.
Min. Bend Radius/Minor Axis:	0.120 in.
Min. Bend Radius (Continuous Flexing):	0.370 in.
Min. Bend Radius (Overall):	1.250 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

AWM Specification:	UL Style 10245 (30 V 105°C)
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes

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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	405/U
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Flame Test

Other Flame Test:	Horizontal Wire
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/ft)

.07

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

29.5

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/ft)

1.46

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

64.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.2

Maximum VSWR:

Freq. (MHz)	Max. VSWR
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500	1.1:1
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20000	1.3:1
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Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
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500	15.0
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1000	22.2
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2000	32.8
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3000	41.2
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5000	54.9
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7000	66.4
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10000	81.2
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15000	102
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18000	113
20000	120

Max. Power Rating:

Freq. (MHz)	Rating (W)
500	180
1000	119
2000	79
3000	62
5000	46
7000	37
10000	30
15000	24
18000	21
20000	20

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 10245)

Max. Operating Voltage - Non-UL:

Voltage
1500 V RMS

Misc. Information (Overall)**Notes (Overall)**

Notes: US Patents 4, 694, 122 & 5, 293, 001. Patent held in the U.S., Singapore, Australia, Germany, France, and England. Patent pending in Japan. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1671J 010100	100 FT	2.400 LB	BLACK		#24 TFE BRD TINNED COAX PVC
1671J 0101000	1,000 FT	17.000 LB	BLACK	V	#24 TFE BRD TINNED COAX PVC
1671J 010500	500 FT	9.500 LB	BLACK	V	#24 TFE BRD TINNED COAX PVC

Notes:

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECES MINIMUM LENGTH 50' 500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECES MINIMUM LENGTH 50'

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